

FIG. 1

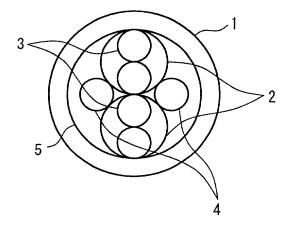


FIG. 2

SUBACTION	ARRITRATION	DACKET	ACK	SUBACTION
GAP	ANDITRATION	FAUNCI	GAP	GAP GAP

FIG. 4

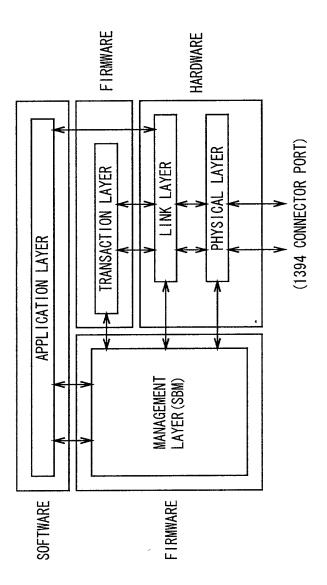
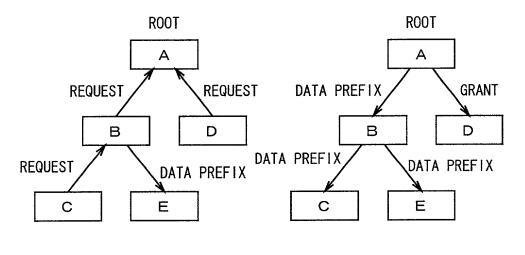


FIG. 3





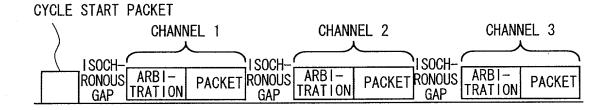


FIG. 6

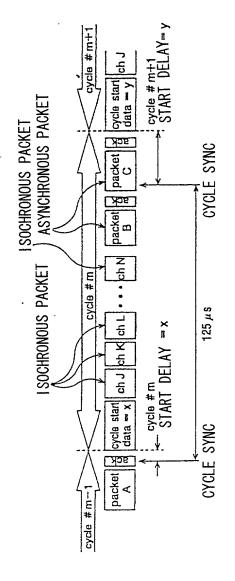


FIG. 7

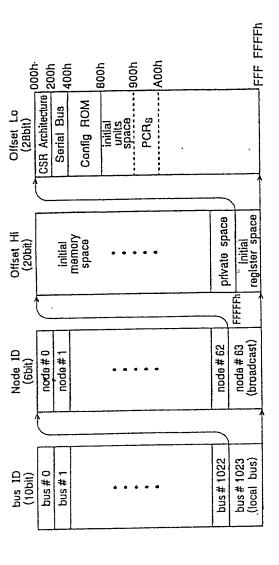


FIG. 8

0FFSET	NAME	OPERATION
4000	STATE_CLEAR	STATE AND CONTROL INFORMATION
004h	STATE_SET	SETS STATE_CLEAR BIT
008h	NODE_IDs	INDICATES 16-BIT NODE 1D
00Ch	RESET_START	STARTS COMMAND RESET
018h-010h	018h-016h SPLIT_TIMEOUT	SPECIFIES SPLIT TIMEOUT
200h	CYCLE_TIME	CYCLE TIME
210h	BUSY_TIMEOUT	SPECIFIES RETRY TIMEOUT
21Ch	BUS_MANAGER	INDICATES BUS MANAGER ID
220h	BANDWIDTH_AVAILABLE	INDICATES BANDWIDTH AVAILABLE FOR
		I SOCHRONOUS COMMUNICATION
224h-228h	CHANNELS_AVA I LABLE	224h-228h CHANNELS_AVAILABLE INDICATES AVAILABLE STATE OF EACH CHANNEL

FIG. 9

length	info_length	crc_length	rom_crc_value
		bus_info_t	block
		root_direc	tory
		unit_direct	ories
		leaves	
	ve	_information	

FIG. 10

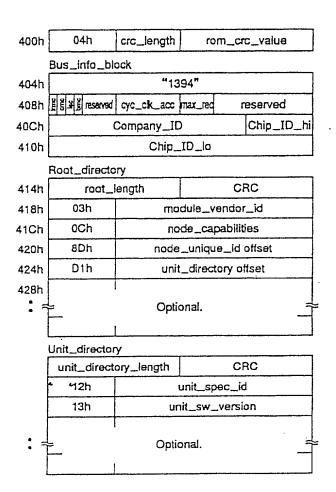


FIG. 11

900h	Output Master Plug Register
904h	Output Plug Control Register #0
908h	Output Plug Control Register #1
•	•
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984ከ	Input Plug Control Register #0
988h	Input Plug Control Register #1
•	•
•	•
9FCh	Input Plug Control Register #30

FIG. 12

		3			≘	_		pit)			(pic)
	number of output plugs	5 (bit)		payload	10 (bit)		number of Input plugs	a) s		reserved	16 (b
	nun outp			overhead ID	4		inu Idul		•		
	reserved	9		data rate .	2		reserved	3		channel number	9
***************************************	persistent dension field	8		reserved channel number	9		persistent tension field	8		reserved	2
	ant per ald exten			reserved	2		ent pe		4	point ction iter	
	non-persiste extension fie	8		point-to-point connection counter	9		non-persistent extension field extension field	8		point-to-point connection counter	9
	broadcast non-persistent persistent channel base extension field extension field	Ĝ,		broadcast poli connection c counter	1		reserved	Ð		broadcast connection counter	1
oMPR	data rate capability	2	oPCR [n]	on—line c	-	IMPR	data rate capability	2	IPCR [n]	on-line	-
	13A			13B			FIG. 13C			13D	
	FIG. 13A			FIG. 13B			FIG.			FIG. 13D	

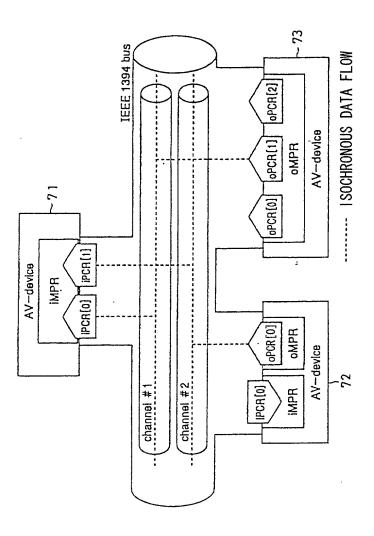


FIG. 14

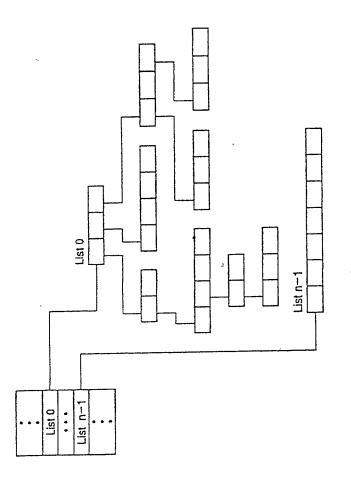


FIG. 15

TL.	Connect Cultural Valuation D
	General Subunit Identifier Descriptor
address	contents
00 0016	descriptor_length
00 0116	
00 0216	generation_ID
00 0316	size_of_list_ID
00 0416	size_of_object_ID
00 05 ₁₆	size_of_object_position
00 0616	number_of_root_object_lists(n)
00 07 ₁₆	
00 08 ₁₆	root_object_list_id_0
•	
:	• -
•	root_object_list_id_n-1
:	
•	subunit_dependent_length
•	
:	
• • •	subunit_dependent_information
:	
	manufacturer_dependent_length
:	
•	manufacturer_dependent_information
:	į

FIG. 16

gene	ration_ID values
generation_ID	meaning
00 ₁₆	Data structures and command sets as specified in the AV/C General Specification, version 3.0
all others	reserved for future specification

FIG. 17

List ID Value	Assignment Ranges
range of values	list definition
0000 ₁₆ -0FFF ₁₆	reserved
1000 ₁₆ -3FFF ₁₆	subunit-type dependent
4000 ₁₆ -FFFF ₁₆	reserved
1 0005 fs-max list ID value	subunit-type dependent

FIG. 18

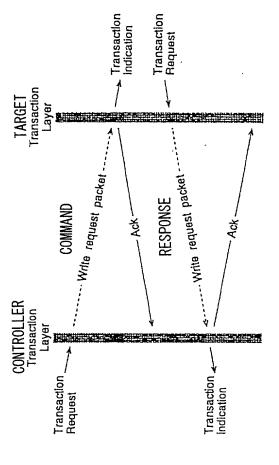


FIG. 19

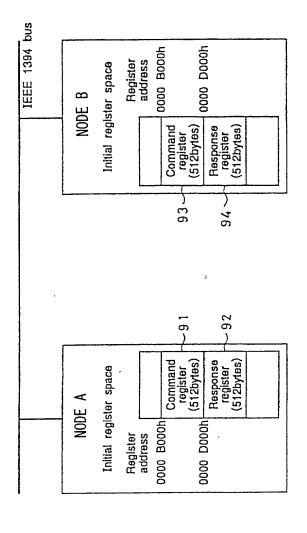


FIG. 20

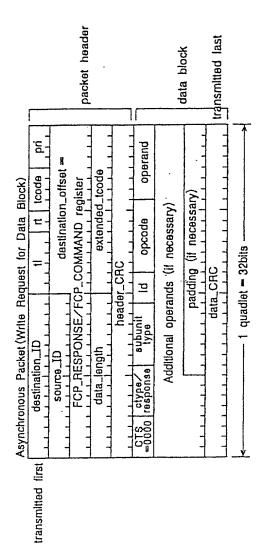


FIG. 2

CONTROL OCOUNTACL OCOUNTACT OC	Subunition Subunition Subunition Specific Induity Specific I	opcode: Operation Code CON VENDOR-DEPENDENT CON SEARCH MODE 51h TIMECODE 52h ATN 60h OPEN MIC 61h READ MIC 62th WRITE MIC COTH MAD MEDIUM	C2h RECORD C3h PLAY C4h WIND 2	FIG. 22C
Subunil Sacration Set Induiry And Induiry Set for future specification) Solution	Subunil Sacration Set Induiry And Induiry Set for future specification) Solution			
Subunil Sacration Set Induiry And Induiry Set for future specification) Solution	Subunil Sacration Set Induiry And Induiry Set for future specification) Solution	Lype Video monitor Video monitor (rasarved) Disc recorder/ Player Tape recorder/ Player Video Camera	(reserved) Vendor unique Reserved Subunit type extended to next byte	IG. 22B
FOL JS FFIC INQUIRY AL INQUIRY ed for future specification) IMPLEMENTED PTED PTED PTED PANSITION EMENTED/STABLE IGED (GED (AND INTERPLED STABLE (GED (AND INTERPLED STABLE (GED	FOL JS FFIC INQUIRY AL INQUIRY ed for future specification) IMPLEMENTED PTED PTED PTED PANSITION EMENTED/STABLE IGED (GED (AND INTERPLED STABLE (GED (AND INTERPLED STABLE (GED	subunit 00000 00011 00100 00101	11101	ш
		ROL JS IFIC INQUIRY Y RAL INQUIRY ed for future specification)	1000 1000 1010 1100 1110 1110	FIG. 22A

			tape recorder	9		
	AV/C	AV/C control	/player	2	PLAY	FORWARD
D2C 21⊒	CTS=	ctype=	subunit	₽pi	epoodo	operand=
707.01	0000	0000 0000		000		75h
			lana recorder			
1	AV/C	accepted	AV/C accepted /player	2	PLAY	FORWARD
FIG 23B	CTS.	response	subunit	= p	-apcodo	operand=
)	0000	0000 =1001		000	cah	75h

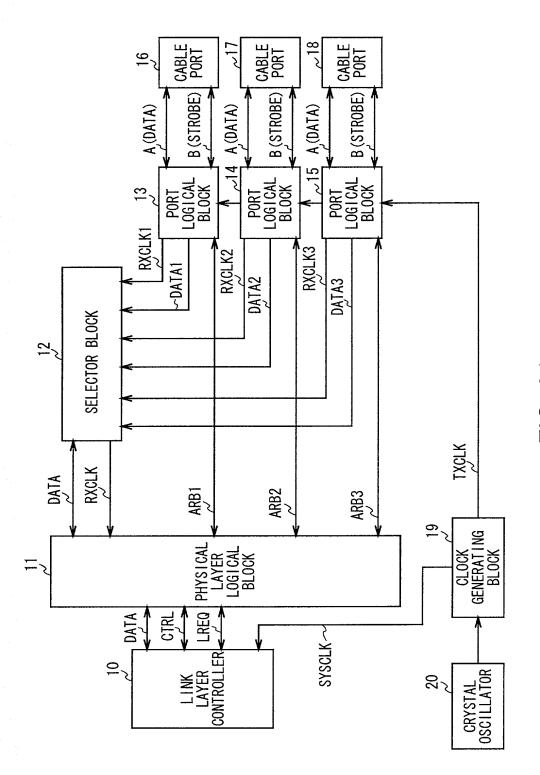


FIG. 24

TRANSMISSION ARBITRATION SIGNAL A	DR	IVER	REMARKS
	Strb_Tx	Strb_Enable	
Z		0	TPA DRIVER: INACTIVE
0	0	1	TPA DRIVER: ACTIVE, STROBE: LOW
1	1	1	TPA DRIVER: ACTIVE, STROBE: HIGH

FIG. 25

TRANSMISSION ARBITRATION SIGNAL B	DR	IVER	REMARKS
	Data_Tx	Data_Enable	
Z	_	0	TPB DRIVER: INACTIVE
0	0	1	TPB DRIVER: ACTIVE, STROBE: LOW
1	1	1	TPB DRIVER: ACTIVE, STROBE: HIGH

FIG. 26

	, 	т				,	_	
REMARKS	'n=AorB THIS TABLE APPLIES TO BOTH A AND B.	IF THIS PORT HAS TRANSMITTED Z.	RECEIVED SIGNAL IS EQUIVALENT TO	END OF CABLE.	IF COMPARATOR RECEIVES Z WHILE THIS PORT TRANSMITS 0, OTHER PORT TRANSMITS 1.	OTHER PORT TRANSMITS 0 OR Z.	OTHER PORT TRANSMITS O.	OTHER PORT TRANSMITS 1 OR Z.
INTERPOLATED ARBITRATION	SIGNAL (Arb_n)'	Z	0	,	1	0	-	_
RECEIVED ARBITRATION INTERPOLATED RBITRATION FROM ITS ARBITRATION	PORT (Arb_n_Tx)	7	2	Z	0	0	1	
RECEIVED ARBITRATION ARBITRATION COMPARISON FROM ITS	VALUE PORT (Arb_n_Tx)	2	0	,	Z	0	Z	_

FIG. 27

ARBITRATION TRANSMISS	TRANSMISSION	ON INF STATE NAME	DEMADES
(Arb_A_Tx)	(Arb_B_T)	LINE SIAIE NAME	KEMARAS
Z	Z	IDLE	TRANSMITTED TO INDICATE GAP.
7	c	TX_REQUEST	TRANSMITTED TO PARENT NODE TO REQUEST BUS.
7	O	TX_GRANT	TRANSMITTED TO CHILD NODE WHEN BUS IS GIVEN.
0	Z	TX_PARENT_NOTIFY	TX_PARENT_NOTIFY TRANSMITTED TO NODE OF PARENT CANDIDATE IN Tree_ID PHASE.
0		TX_DATA_PREFIX	TRANSMITTED BEFORE PACKET DATA OR BETWEEN PACKET DATA OF SUBACTION CONNECTED.
		TX_CHILD_NOTIFY	TX_CHILD_NOTIFY TRANSMITTED TO CHILD NODE TO ACKNOWLEDGE PARENT_NOTIFY.
	2	TX_I DENT_DONE	TRANSMITTED TO PARENT NODE TO INDICATE THAT self_ID PHASE IS COMPLETED.
•	0	TX_DATA_END	TRANSMITTED AT END TIME OF PACKET TRANSFER.
	,	BUS_RESET	TRANSMITTED TO RECONSTRUCT THE BUS.

FIG. 28

RECEPTION ARBI	RECEPTION ARBITRATION SIGNAL	THE THE PARTY IN	
(Arb_A_Rx)	(Arb_B_Tx)	LINE SIAIE NAME	KEMARAS
Z	Z	IDLE	PHY OF ADJACENT NODE CONNECTED IS NOT IN OPERATION.
7	C	RX_PARENT_NOT1FY	PHY OF ADJACENT NODE CONNECTED IS BECOMING CHILD NODE.
1	>	RX_REQUEST_CANCEL	PHY OF ADJACENT NODE CONNECTED HAS ABANDONED REQUEST.
Z	-	RX_I DENT_DONE	PHY OF CHILD NODE HAS COMPLETED self_ID PHASE.
0	7	RX_SELF_ID_GRANT	PHY OF PARENT NODE GIVES BUS FOR self_ID.
		RX_REQUEST	PHY OF CHILD NODE REQUESTS BUS.
0	0	RX_R00T_CONTENTION	PHYS OF CHILD NODE AND ADJACENT NODE CONNECTED ARE BOTH BECOMING CHILD NODE.
		RX_GRANT	PHY OF PARENT NODE GIVES BUS CONTROL.
		RX_PARENT_HANDSHAKE	RX_PARENT_HANDSHAKE PHY OF ADJACENT NODE CONNECTED ACKNOWLEDGES PARENT_NOTIFY.
0		RX_DATA_END	PHY OF ADJACENT NODE CONNECTED ENDS TRANSMISSION OF DATA BLOCK AND RELEASES BUS.
,	7	RX_CHILD_HANDSAHKE	PHY OF ADJACENT NODE CONNECTED ACKNOWLEDGES TX_CHILD_NOTIFY.
-	0	RX_DATA_PREFIX	PHY OF ADJACENT NODE CONNECTED IS TRANSMITTING PACKET DATA OR FURTHER TRANSMITTING DATA AFTER END OF TRANSMITTING DATA BLOCK.
	-	BUS_RESET	TRANSMITTED TO RECONSTRUCT BUS.

FIG. 29

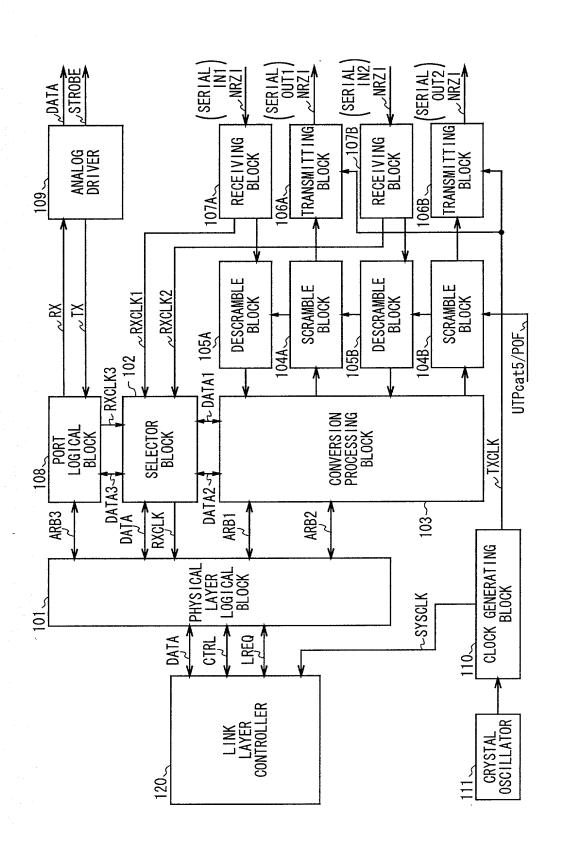


FIG. 30

TRANSMISSION SYMBOL	ARBITRATION STATUS
11111	IDEL
00100	TX_REQUEST
00100	TX_GRANT
00101	TX_PARENT_NOTIFY
11000 10001	TX_DATA_PREFIX
00111	TX_CHILD_NOTIFY
00111	TX_IDENT_DONE
01101	TX_DATA_END
00000 11111	BUS_RESET

FIG. 31

11111	11111	IDLE
00101	11111	RX_PARENT_NOTIFY
11111	00100	RX_REQUEST_CANCEL
00111	11111	RX_IDENT_DONE
00100	11111	RX_SELF_ID_GRANT
00100	11111	RX_REQUEST
00101	00101	RX_ROOT_CONTENTION
00100	00100	RX_GRANT
00111	00101	RX_PARENT_HANDSHAKE
01101	11111	RX_DATA_END
11111	00111	RX_CHILD_HANDSHAKE
11000 10001	00100	RX_DATA_PREFIX
11000 10001	00111	RX_DATA_PREFIX
11000 10001	11111	RX_DATA_PREFIX
00000 11111	(do'nt care)	BUS_RESET
00000 11111	(40 110 041 07	

FIG. 32

	,	
HEXADECIMAL	BINARY	SYMBOL
0	0000	11110
1	0001	01001
2	0010	10100
3	0011	10101
4	0100	01010
5	0101	01011
6	0110	01110
7	0111	01111
8	1000	10010
9	1001	10011
Α	1010	10110
В	1011	10111
C	1100	11010
D	1101	11011
E	1110	11100
F	1111	11101

FIG. 33

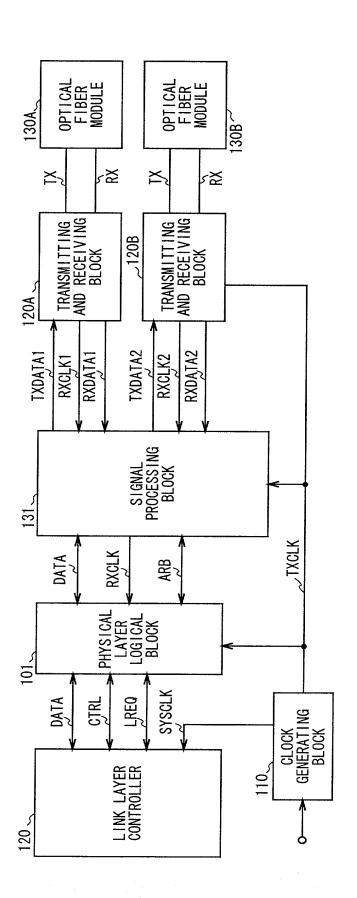


FIG. 34

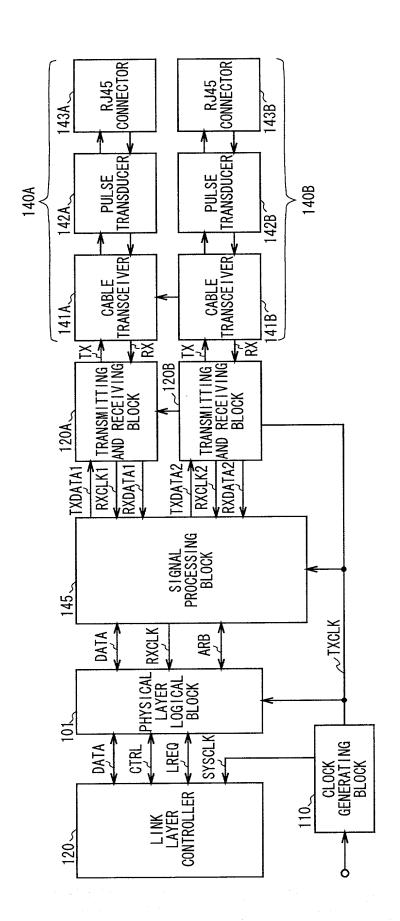


FIG. 35

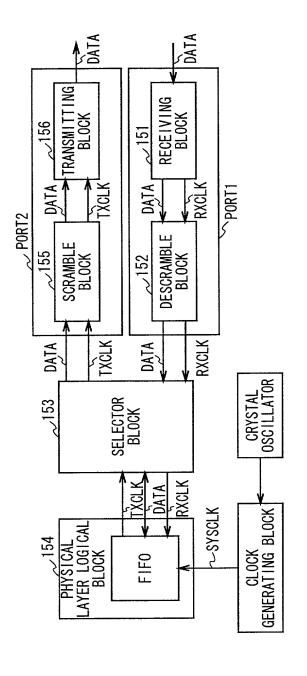


FIG. 36

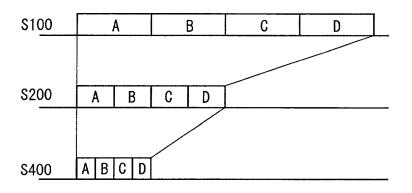


FIG. 37

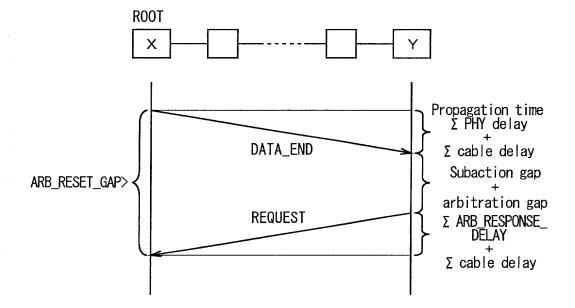


FIG. 38

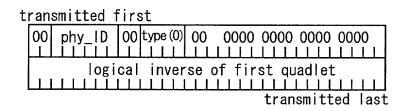


FIG. 39

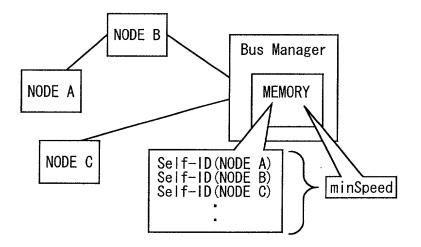


FIG. 40

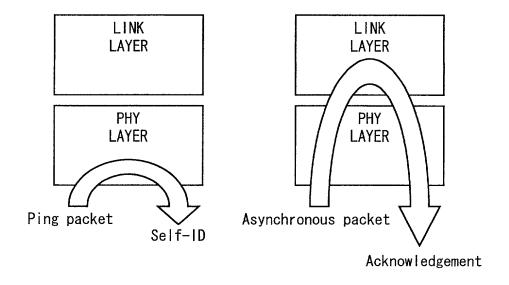


FIG. 41